Docket No.: TIP-0052USPCT

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## **ABSTRACT**

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## PIPERIDINE-AMINO-BENZIMIDAZOLE DERIVATIVES AS INHIBITORS OF RESPIRATORY SYNCYTIAL VIRUS REPLICATION

The present invention concerns piperidine-amino-benzimidazoles having inhibitory activity on the replication of the respiratory syncytial virus and having the formula

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$$Q \longrightarrow N \longrightarrow R^5 \longrightarrow N \longrightarrow R^{2b} \longrightarrow R^{3a}$$

$$Q \longrightarrow N \longrightarrow R^{3a} \longrightarrow R^{2a} \longrightarrow R^{2a}$$

$$(I)$$

their prodrugs, N-oxides, addition salts, quaternary amines, metal complexes and stereochemically isomeric forms wherein Q is C<sub>1-6</sub>alkyl optionally substituted with 10 trifluoromethyl, C<sub>3-7</sub>cycloalkyl, Ar<sup>2</sup>, hydroxy, C<sub>1-4</sub>alkoxy, C<sub>1-4</sub>alkylthio, Ar<sup>2</sup>-oxy-, Ar<sup>2</sup>-thio-, Ar<sup>2</sup>(CH<sub>2</sub>)<sub>n</sub>oxy, Ar<sup>2</sup>(CH<sub>2</sub>)<sub>n</sub>thio, hydroxycarbonyl, aminocarbonyl, C<sub>1-4</sub>alkylcarbonyl, Ar<sup>2</sup>carbonyl, C<sub>1-4</sub>alkoxycarbonyl, Ar<sup>2</sup>(CH<sub>2</sub>)<sub>n</sub>carbonyl, aminocarbonyloxy, C<sub>1-4</sub>alkylcarbonyloxy, Ar<sup>2</sup>carbonyloxy, Ar<sup>2</sup>(CH<sub>2</sub>)<sub>n</sub>carbonyloxy, C<sub>1-4</sub>alkoxycarbonyl(CH<sub>2</sub>)<sub>n</sub>oxy, mono- or di(C<sub>1-4</sub>alkyl)aminocarbonyl, mono- or di(C<sub>1-4</sub>alkyl)-15 aminocarbonyloxy, aminosulfonyl, mono- or di(C<sub>1-4</sub>alkyl)aminosulfonyl or a heterocycles selected from the group consisting of pyrrolidinyl, pyrrolyl, dihydropyrrolyl, imidazolyl, triazolyl, piperidinyl, homopiperidinyl, piperazinyl, morpholinyl, thiomorpholinyl, 1-oxo-thiomorpholinyl, 1,1-dioxothiomorpholinyl, 20 pyridyl and tetrahydropyridyl, wherein each of said heterocycle may optionally be substituted with oxo or C<sub>1-6</sub>alkyl; G is a direct bond or optionally substituted C<sub>1-</sub> <sub>10</sub>alkanediyl; R<sup>1</sup> is Ar<sup>1</sup> or a monocyclic or bicyclic heterocycle; one of R<sup>2a</sup> and R<sup>3a</sup> is C<sub>1-6</sub>alkyl and the other one of R<sup>2a</sup> and R<sup>3a</sup> is hydrogen; in case R<sup>2a</sup> is different from hydrogen then R<sup>2b</sup> is hydrogen or C<sub>1-6</sub>alkyl, and R<sup>3b</sup> is hydrogen; in case R<sup>3a</sup> is different from hydrogen then R<sup>3b</sup> is hydrogen or C<sub>1-6</sub>alkyl, and R<sup>2b</sup> is hydrogen; t is 1, 2 or 3; Ar<sup>1</sup> 25 is phenyl or substituted phenyl; and Ar<sup>2</sup> is phenyl or substituted phenyl. It further concerns their preparation and compositions comprising them, as well as their use as a medicine.